

Benefit from our services to the paper and board industry

You can trust our know-how. More than 1,000 systems have been installed worldwide of which 60% come from repeat orders with existing customers.

We offer to your business a complete product range for non-contact drying including gas, electrical infrared and air flotation solutions.

Our application engineering services are at your disposal to define the best solution in terms of drying quality, efficiency and investment costs.

You can count on local service teams available in Brazil, China, Finland, France, Germany, Indonesia, Italy, Sweden and USA.

www.bekaert.com

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UniDryer® V2

Combined air and gas infrared drying after size press and coating stations



BCT 415222 C This paper has been dried with a Bekaert non contact drying system

Minimize your operating costs while improving your paper quality

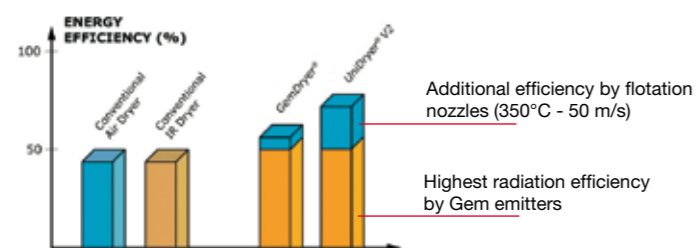
Bekaert UniDryer® V2 for non-contact drying and profiling after size press and coating stations

Minimize your operating costs

Benefit from the highest energy efficiency and longest emitter lifetime provided by Bekaert UniDryer® V2.

The high efficiency, high power Gem emitters transfer the energy directly into the web by infrared radiation. Air flotation nozzles in between each 2-row burner optimize evaporation and energy transfer. Overall energy efficiency is optimal thanks to the integrated fans, that directly re-blow the hot air back to the web up to 350°C at 50m/s. By this, UniDryer® V2 energy efficiency goes up to 68%, without the use of any heat exchanger. Furthermore, your electricity costs are minimized due to the integrated blowing fans.

Bekaert Gem emitter is a high density ceramic emitter especially developed for the paper and board industry. Gem has the longest proven lifetime on the market, which is at nominal power up to seven years.

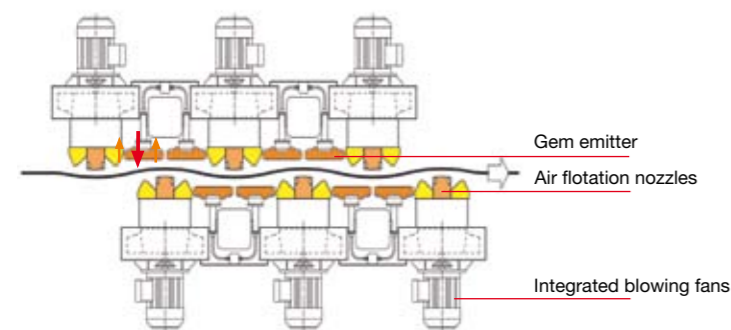


Improve your paper quality

Bekaert UniDryer® V2 brings the highest quality to your paper thanks to its unique features.

The use of high power Bekaert Gem emitters allows to reach the gel point as fast as possible. Therefore binder migration and mottling are reduced. After the gel point, you can further control the drying rate by the selection and power level of each two-row burner. The coat temperature is controlled all along the drying arch by the alternate use of air flotation and infrared.

You can also optimize your cross direction moisture profile by integrating a profiling option into your Bekaert UniDryer® V2 system. Even if you apply different amounts of coating on each side of your paper, Bekaert UniDryer® V2 ensures a perfect quality thanks to top-bottom drying flexibility.



Arjo Wiggins Dettingen - Germany
Pre-Impregnated Paper
Bekaert UniDryer® V2 Gem 10
520 m/min 7.2 MW 4.16 m



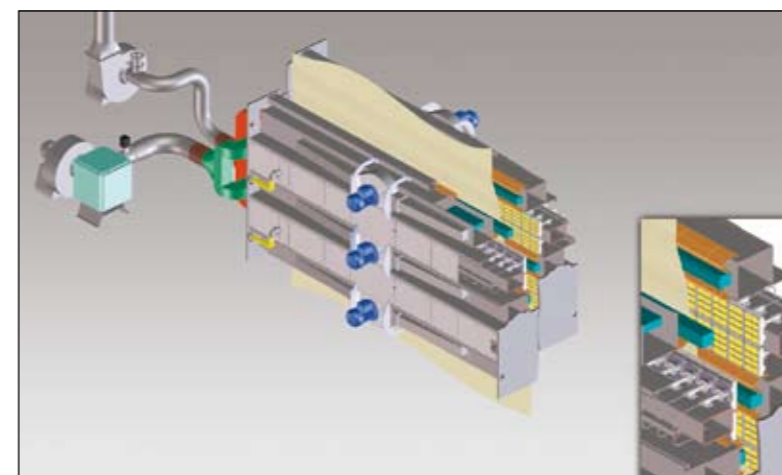
Fedrigoni Fabriano - Italy
Wood Free Pigmented Copy Paper
Bekaert UniDryer® V2 Gem 10
850 m/min 2.56 MW 4.5 m



Arjo Wiggins Dartford - UK
Publication Paper
Bekaert UniDryer® V2 Gem 7
800 m/min 1.65 MW 4.95 m



Cordenons Malmedy - Belgium
Fine and Specialty Paper
Bekaert UniDryer® V2 Gem 9
400 m/min 745 kW 3.1 m



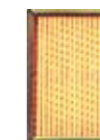
Hood dimensions	1,994 mm MD x 590 mm height (4-row hood) 2,726 mm MD x 590 mm height (6-row hood)
Emitter dimensions	143 mm CD x 200 mm MD
Emitter max power	6.5 to 10 kW
Max power density (f/f)	245 kW/m ²
Max evaporation rate (f/f)	260 kg/h/m ²
System efficiency	68%



Gem7



Gem9



Gem10

Bekaert UniDryer® V2 options to better satisfy your current and future needs!

The Gem family today includes Gem 7, 9 and 10. This offers a maximum flexibility for your future power upgrading.

Cross direction moisture profiling.

Automatic web width selection.

The Fire Prevention System is a patented steam shower technology, for optimal risk-free operation under any working condition.

Temperature line scanner for the best paper quality. This scanner offers you the highest resolution and sampling frequency for temperature measurement. It is located outside the zone of high moisture and temperature to guarantee a continuous trouble-free operation.

Minimize your operating costs while improving your paper quality

Bekaert UniDryer® V2 is a non contact drying solution combining air flotation and gas infrared technologies. This system consists of air flotation nozzles, Gem infrared emitters and integrated blowing air fans. This unique combination ensures a high system efficiency of 68%, without the use of any heat exchanger. Knowing that Gem emitters offer the longest lifetime at the highest power, you can be sure that your operating costs are minimized.

Your paper quality is improved thanks to the UniDryer® V2 optimal control of drying rate and surface temperature, which gives the best printing quality.

Additional benefits:

You can save up to 50% of your turnkey costs by the integrated blowing fan design.

Your machine runnability is optimized thanks to the extreme compactness of the Bekaert UniDryer® V2 and the sinewave web flotation.

Your machine uptime is optimized thanks to our standard double ignition and detection system.